UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

October 1964

Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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Bureau of Commercial Fisheries
Biological Laboratory
P. O. Box 6317, Pt. Loma Station
San Diego 6, California

* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

LABORATORY MOVES TO NEW FISHERY-OCEANOGRAPHY CENTER

The U.S. Bureau of Commercial Fisheries Biological Laboratory, San Diego, moved during the last days of October. The laboratory now has quarters at the Bureau's new Fishery-Oceanography Center at La Jolla, some 15 miles from downtown San Diego. The Center is located at 8604 La Jolla Shores Drive on a 200-foot high cliff overlooking the Pacific Ocean, adjacent to the Scripps Institution of Oceanography on land donated to the Federal Government by the Regents of the University of California.

Our address and the name of the laboratory have changed with the move. These changes will be reflected on the cover sheet of the November 1964 issue of this monthly publication.

Those who have correspondence and exchange information and publications with our laboratory are requested to begin using the new designation and address immediately. The latter are:

U. S. Bureau of Commercial Fisheries
Tuna Resources Laboratory
P. O. Box 271
La Jolla, California 92038

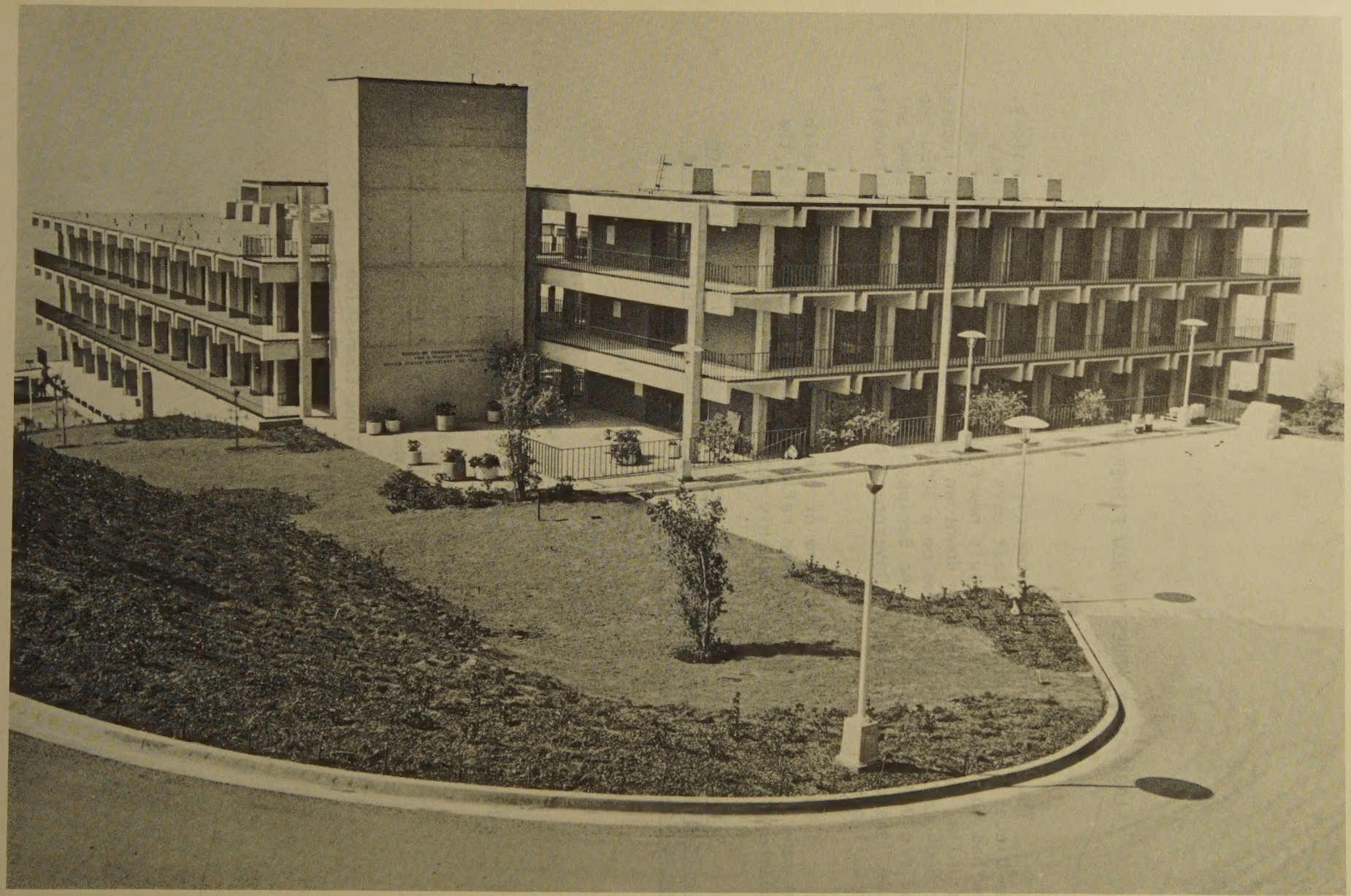
Other research laboratories housed at the Center are:

U. S. Bureau of Commercial Fisheries
California Current Resources Laboratory
(Formerly Biological Laboratory, La Jolla)

Inter-American Tropical Tuna Commission
(Headquarters laboratory)

Scripps Tuna Oceanography Research

California Cooperative Fisheries Investigations
(Office of the Coordinator)



View of the new U.S. Bureau of Commercial Fishery-Oceanography Center, La Jolla, California showing two of a four-building complex.

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN

OCTOBER 1964

Acknowledgments

The following organizations and stations contributed data for the October 1964 charts:

U.S. Bureau of Commercial Fisheries Exploratory Fishing and Gear Research Base, Seattle, Washington
U.S. Bureau of Commercial Fisheries Biological Laboratories, La Jolla, California; Honolulu, Hawaii and Seattle, Washington
U.S. Weather Bureau, San Diego, California
U.S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U.S. Weather Bureau Port Meteorological Office, Cristobal, Canal Zone
California Department of Fish and Game R/V Alaska
Guadalupe Island, Coronado Island, Ensenada, Cedros Island and Almejas Bay by pedro Mercado of the Universidad Autonoma de Baja California, Ensenada, Mexico
Hopkins Marine Station, Pacific Grove, California by J. P. Balesteri
Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; David Ortega at Manzanillo, Mexico; L. A. Peren at Pt. Armuelles, Panama; R. H. Valencia at San Jose, Guatemala; V. E. Castillo at Tumaco, Columbia; G. Tapia at San Cristobal, Galapagos; S. Valenzuela at La Libertad, Ecuador; G. Villar at Talara, Peru; Juan Andia at San Juan, Peru
Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California
Kelco Company, San Diego, California
Lifeguard Headquarters, Newport Beach, California
Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by R. Collins at Quatsino Lightstation; T. Quon at Cape St. James Light; R. Stuart at Amphitrite Point Light; W. E. Redlac at Langara Island Light
Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein
Ships Monsoon, Royal Pacific and West Point

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numerals on shore are temperatures at coastal and light-ship stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term charts of H.O. 225. Hatched areas are colder than mean.

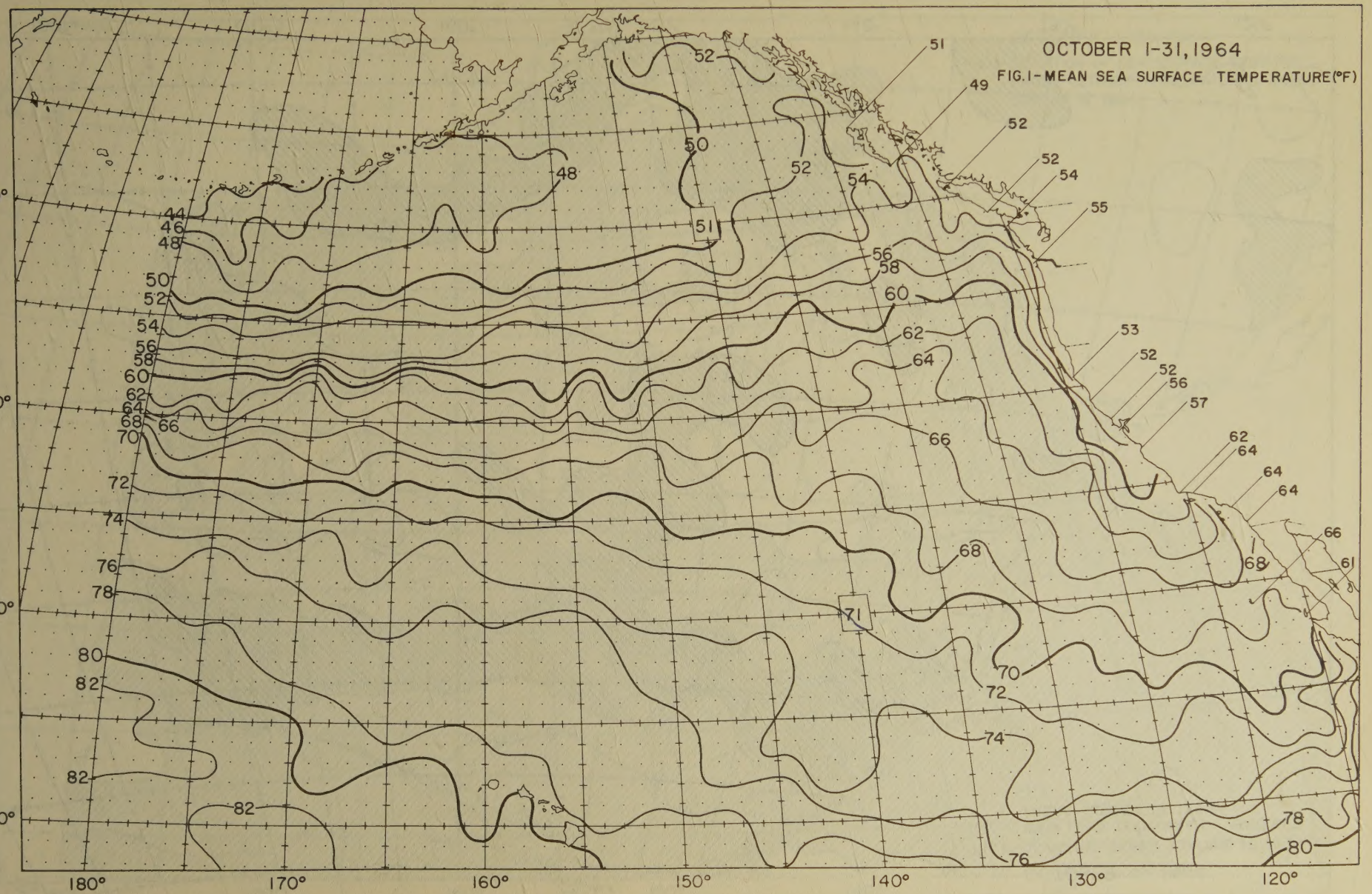
Figure 3.--Deviation of sea surface temperatures (°F) from those of October 1963. Hatched areas are colder than 1963.

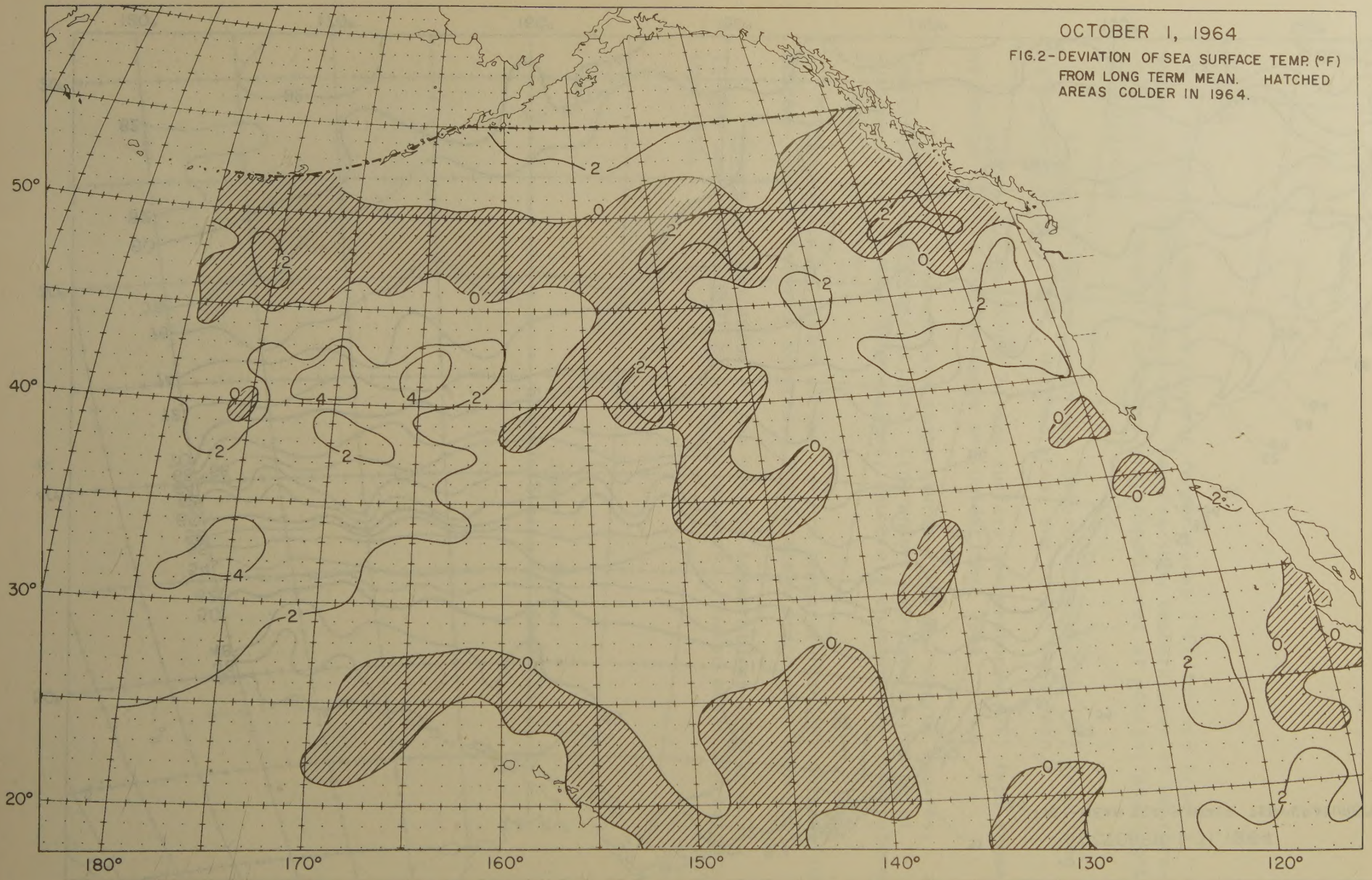
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

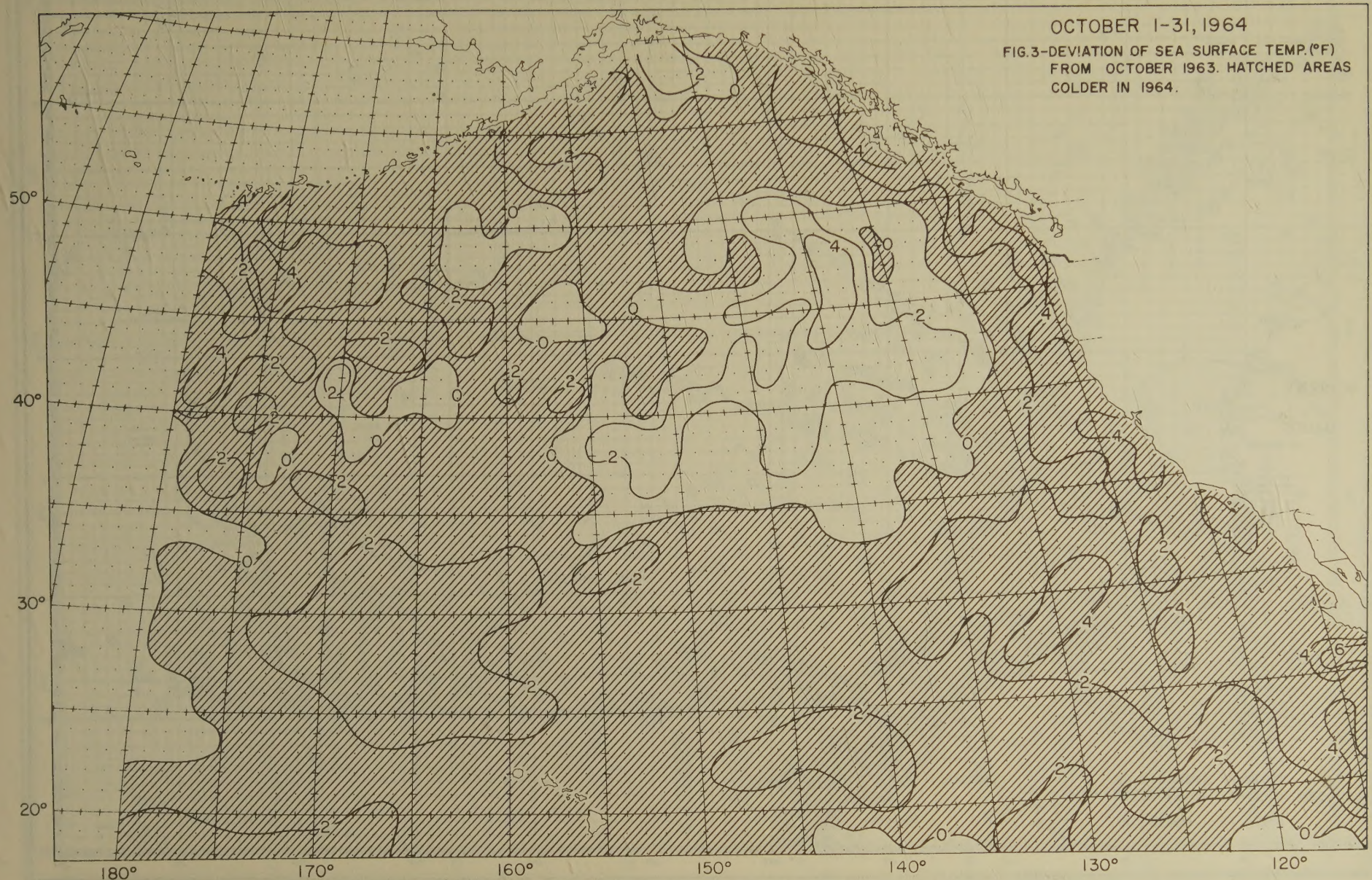
Figure 5.--Deviation of sea surface temperatures (°F) October 1964-October 1963 by 1-degree squares. Shaded areas are colder than 1963.

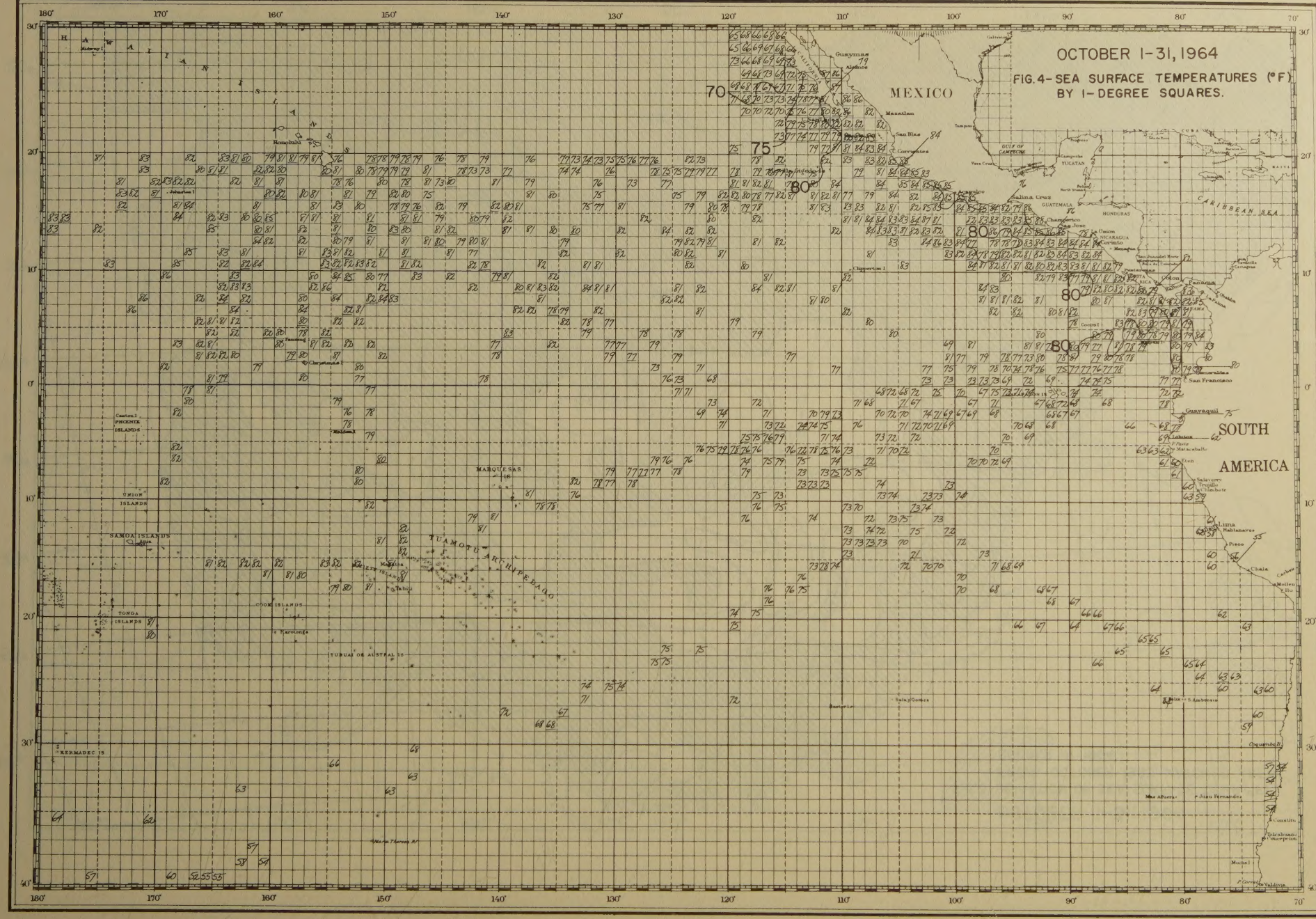
Figure 6.--Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder than 1963.

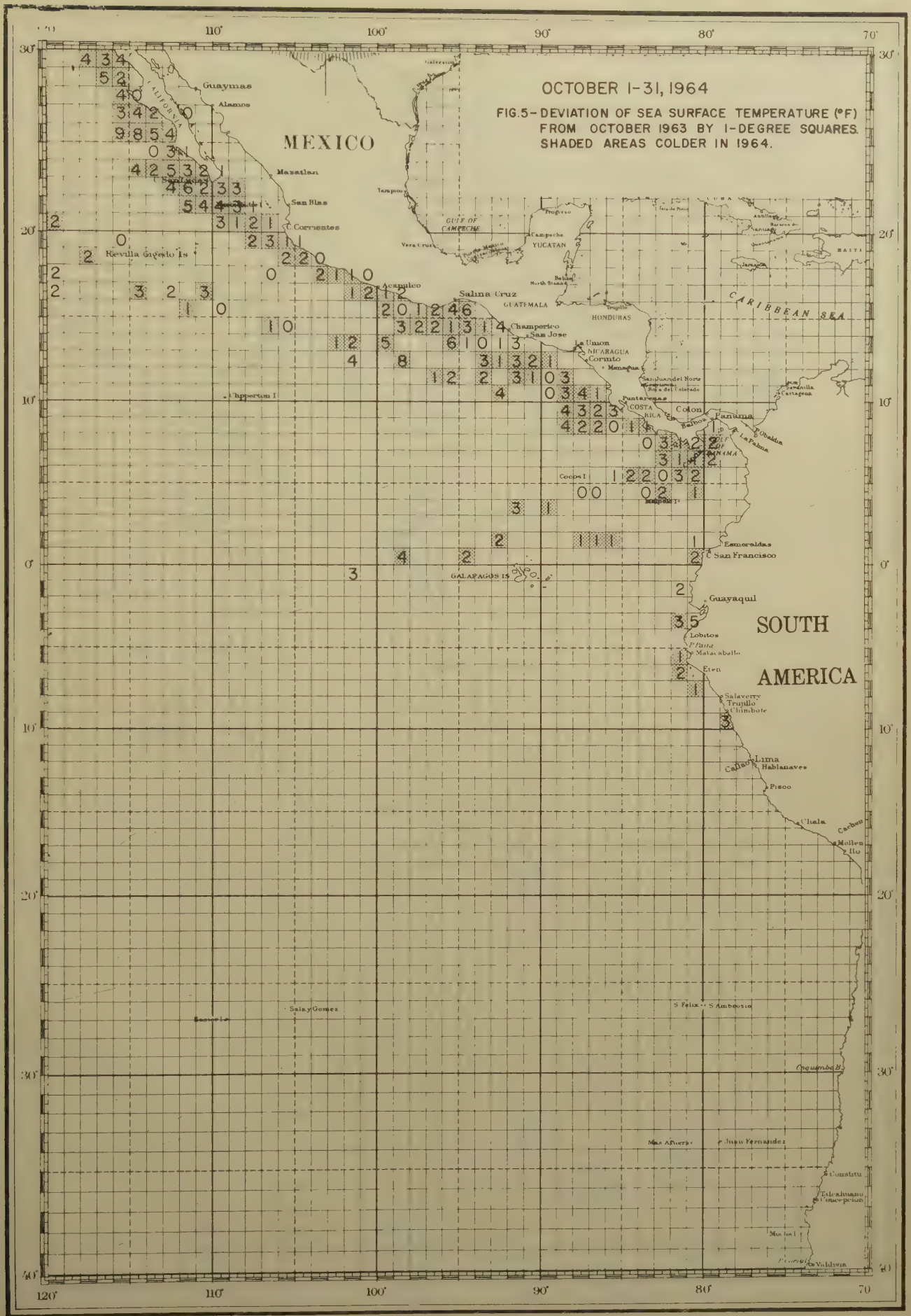
James A. Renner
Fishery Biologist (General)

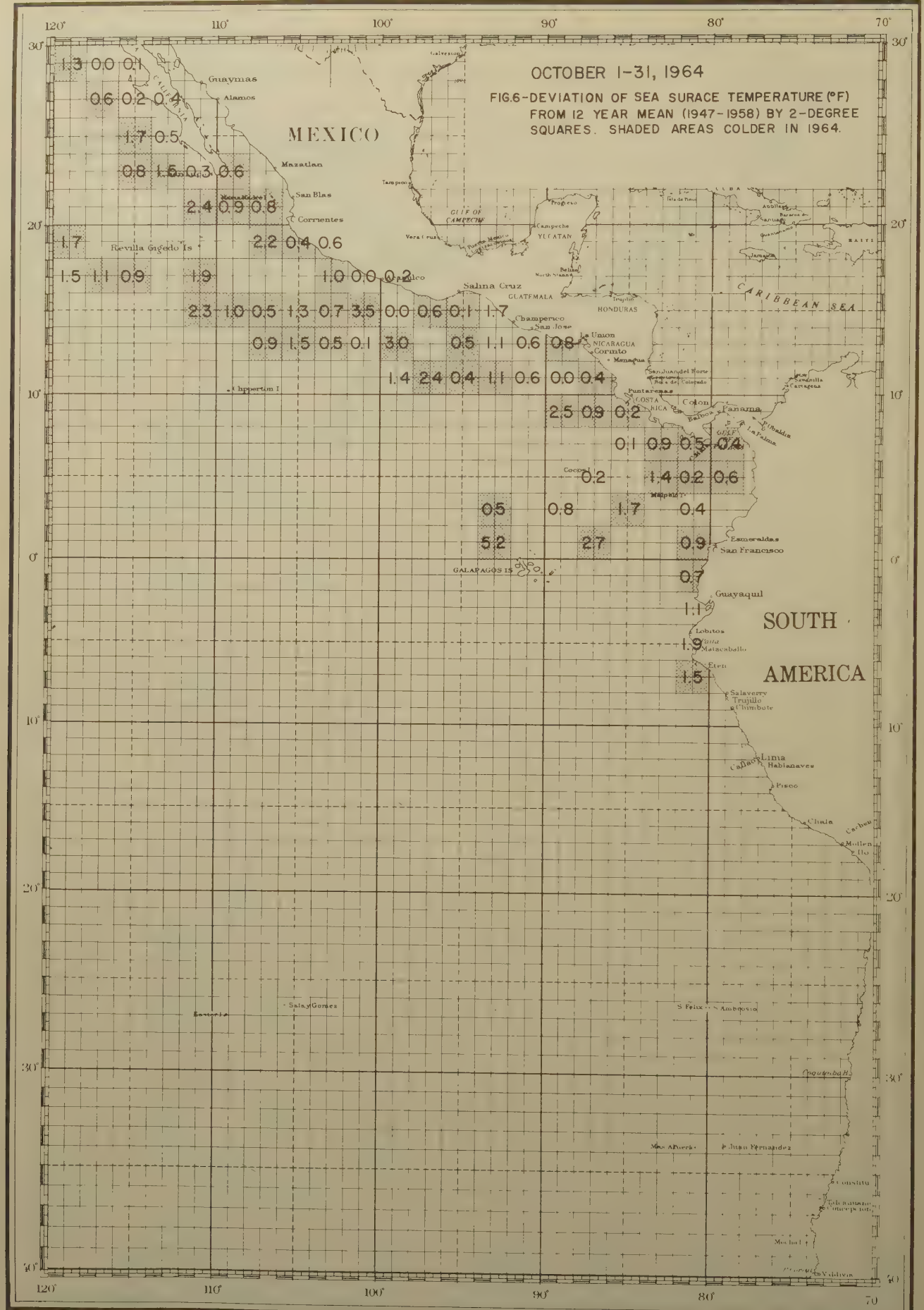

OCTOBER 1-31, 1964
FIG. 1 - MEAN SEA SURFACE TEMPERATURE (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

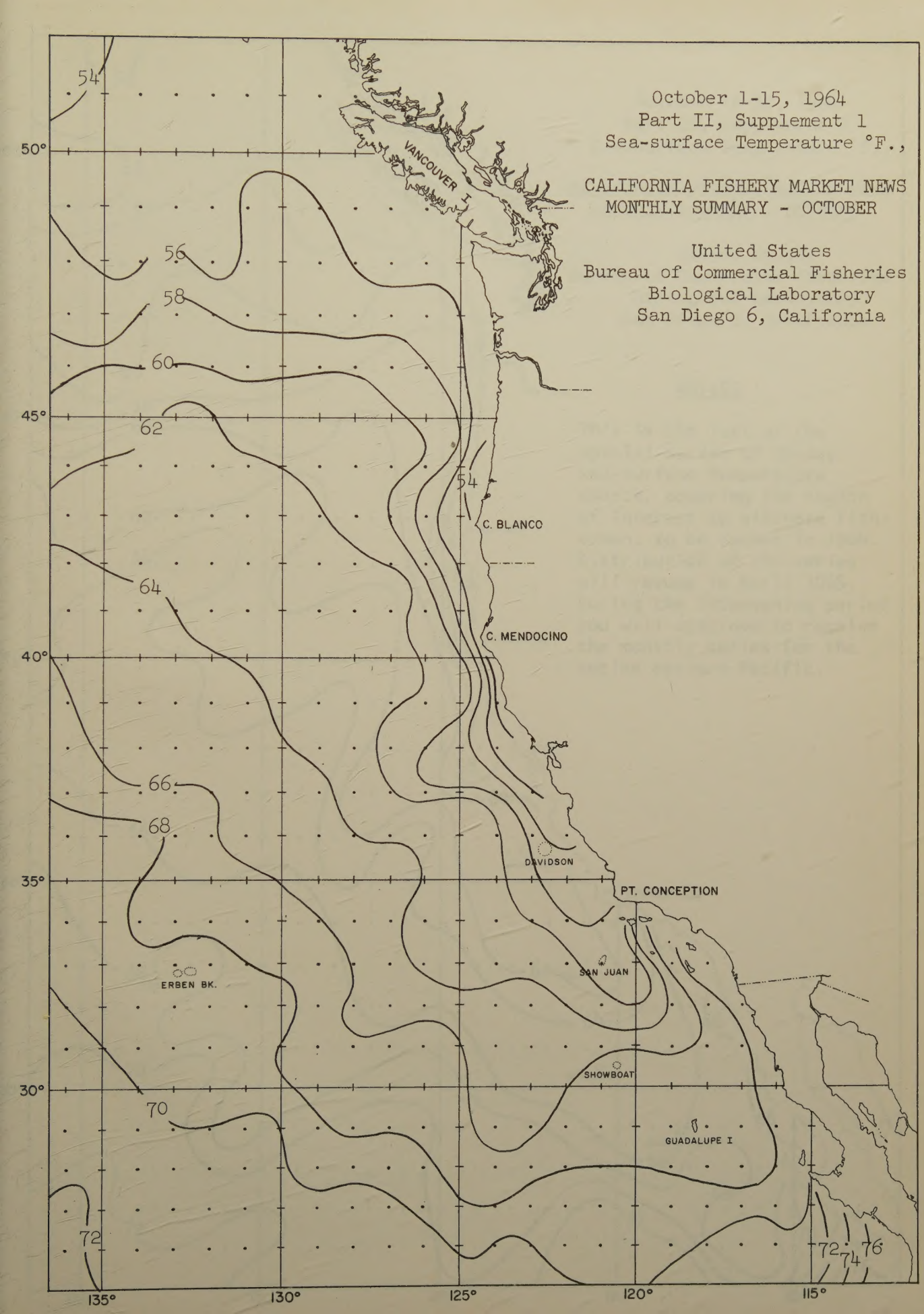

OCTOBER 1, 1964
FIG.2-DEVIATION OF SEA SURFACE TEMP. (°F) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1964.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

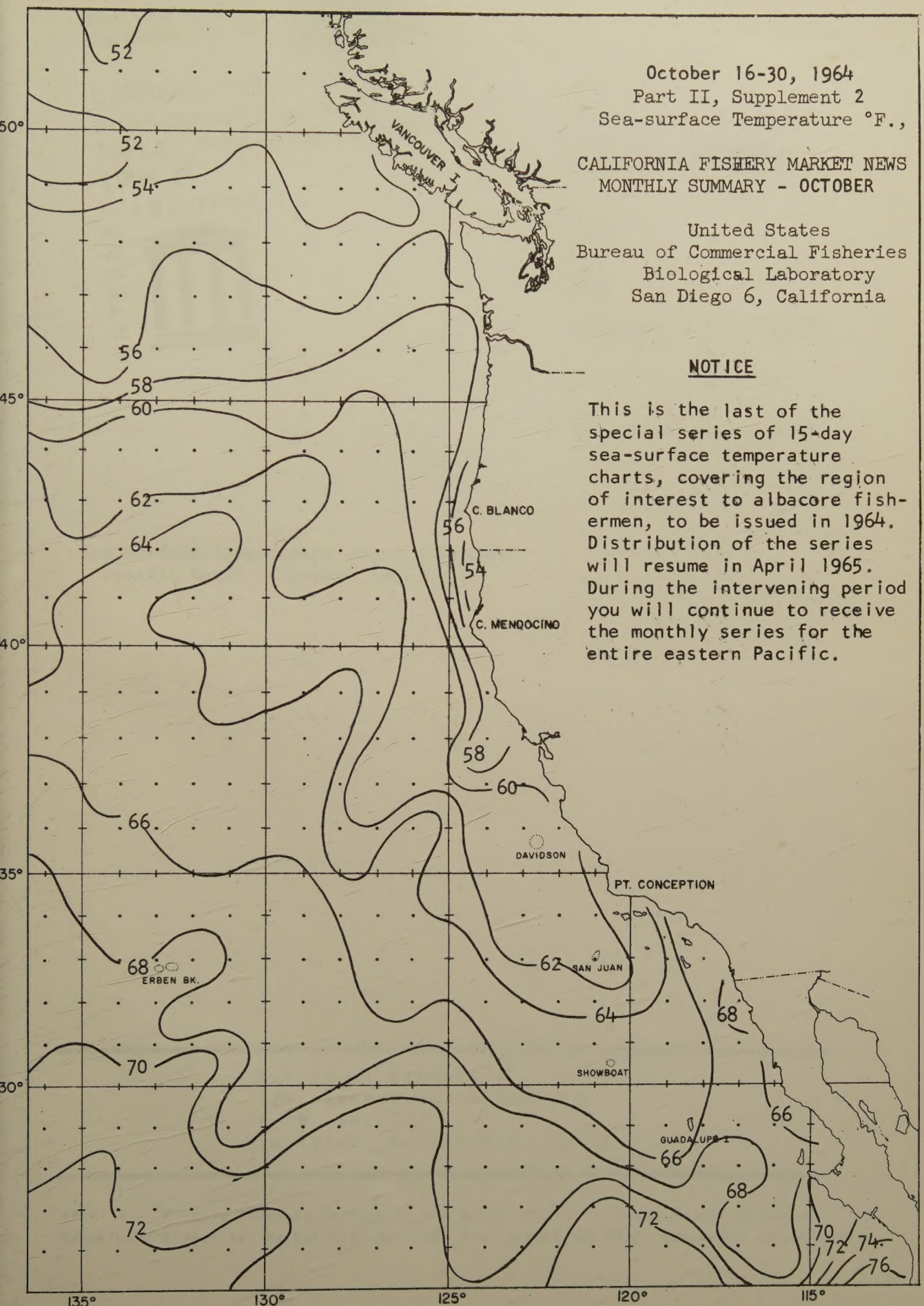

OCTOBER 1-31, 1964
FIG.3-DEVIATION OF SEA SURFACE TEMP.(°F) FROM OCTOBER 1963. HATCHED AREAS COLDER IN 1964.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


OCTOBER 1-31, 1964
FIG. 4 - SEA SURFACE TEMPERATURES (°F) BY 1-DEGREE SQUARES.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
YUCATAN
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
PANAMA
CUBA
HAWAIIAN ISLANDS
Honolulu
PHOENIX ISLANDS
UNION ISLANDS
SAMOA ISLANDS
TONGA ISLANDS
COOK ISLANDS
MARQUESAS
TUAMOTU ARCHIPELAGO
TUBUAI OR AUSTRAL IS
KERMADEC IS
Mazatlan
San Blas
Corrientes
Salina Cruz
Guayaquil
Lima
Callao
Pisco
Chala
Arica
Iquique
Antofagasta
Valparaiso
San Francisco
Tahiti
Rarotonga
Easter I
Juan Fernandez
70
75
80
80
80
80


OCTOBER 1-31, 1964
FIG.5- DEVIATION OF SEA SURFACE TEMPERATURE (°F) FROM OCTOBER 1963 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1964.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CALIFORNIA
GULF OF CAMPECHE
YUCATAN
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
PANAMA
GALAPAGOS IS
CUBA
HAITI
JAMAICA
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Corinto
Managua
Chipperton I
Punta Arenas
Colon
Panama
Coco's I
Esmeraldas
San Francisco
Guayaquil
Lobitos
Talara
Malabrigo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Huacho
Pisco
Chala
Cocheo
Mollendo
Ilo
S. Felix
S. Ambrosio
Juan Fernandez
Mas A Fuera
Constitucion
Talcahuano
Concepcion
Valdivia
Progreso
Campeche
Veracruz
Tampico
Belize
Barbados
Curacao
Aruba
Tobago
Trinidad
Cartagena
Barranquilla
Sabanilla
Bahia Solano
Buenaventura
Tumaco
Esmeraldas
Manta
Salinas
Puerto Pizarro
Paita
Pimentel
Chicama
Huanchaco
Salaverry
Casma
Huarmey
Supe
Chancay
Callao
Pisco
Nazca
Atico
Chala
Mollendo
Ilo
Arica
Iquique
Tocopilla
Antofagasta
Chanaral
Caldera
Coquimbo
Valparaiso
San Antonio
Talcahuano
Concepcion
Corral
Valdivia
Mocha I.
Juan Fernandez
Mas A Fuera
S. Felix
S. Ambrosio
Easter I.
Sala y Gomez
Rapa I.
Pitcairn I.
Henderson I.
Oeno I.
Ducie I.
Easter I.
Sala y Gomez
Rapa I.
Pitcairn I.
Henderson I.
Oeno I.
Ducie I.
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°


OCTOBER 1-31, 1964
FIG.6-DEVIATION OF SEA SURACE TEMPERATURE (°F) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1964.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Salina Cruz
Champerico
Panama
Colon
Esmeraldas
San Francisco
Guayaquil
Lima
Callao
Pisco
Chala
Salaverry
Trujillo
Chimbote
Lebutos
Eten
Malacaballo
Sala y Gomez
S Felix
Ambrosio
Juan Fernandez
Valdivia
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°


October 1-15, 1964
Part II, Supplement 1
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - OCTOBER
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
VANCOUVER I
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
ERBEN BK.
SHOWBOAT
GUADALUPE I
54
56
58
60
62
64
66
68
70
72
74
76
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°



October 16-30, 1964
Part II, Supplement 2
Sea-surface Temperature °F.,

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY - OCTOBER

United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California

NOTICE

This is the last of the special series of 15-day sea-surface temperature charts, covering the region of interest to albacore fishermen, to be issued in 1964. Distribution of the series will resume in April 1965. During the intervening period you will continue to receive the monthly series for the entire eastern Pacific.